Safety Instructions

The following instructions are given to ensure your safety and prevent the loss of property. Read them thoroughly and ensure the product is correctly used.

Warning Indicates that violation of the instruction may cause death or serious human injury.

Caution Indicates that violation of the instruction may cause human injury or damage of property.

Product

Adjust the angle of a camera and check the recorded video after mounting the product: change of the mounting may change the angle of the camera.

If the product is mounted on any unsuitable place, recording may fail to run properly.

This product records driving video using a camera. The quality of video may be degraded in extreme situations, such as when the brightness changes rapidly, when entering or exiting a tunnel, or when the backlight is too strong, for example at noon, or when there is no light source, for example at midnight.

Do not use an excessive tint on the front window through solar control films that disturb clear video recording.

Some solar control films may cause the white-balance used in video recording to change.

When a product has been damaged or lost due to a big accident or a break in the power supply to the product, an accident video may not be recorded.

For the best video quality, keep the front window of your vehicle clean before commencing recording.

Foreign material (e.g., fingerprints) that stains on the black box lens may result in a negative impact on the recorded video. Keep the lens clean.

Product

The best operation temperature is -20~65˚C.

Please keep the temperature in summer or winter to prevent any problem.

If the product is used or kept under -20˚C or over 65˚C , malfunction or failure of the product may occur.

Please pay attention to the temperature of the place where the product is stored.

We suggest that the products is kept out of direct sunlight for longer product lifetimes.

We suggest parking in the shade, if possible.

Do not use the product in a place where the temperature and/or humidity is too high.

If the product is made wet by rain or a beverage-spill, causing irreversible damage, the user is liable for any damage caused.

Use THINKWARE-sold articles correctly.

THINKWARE is not liable for any product damage or personal injuries that occur due to accidents or the incorrect use or operation of this product

Do not press the buttons with too much pressure.

It may cause failure of the product.

Do not clean the product using chemicals or detergent.

Just softly clean it with a cloth.

Keep the product out of reach from children or pets for their safety.

Otherwise, they may be seriously wounded.

Do not drop the product nor disassemble without any direction of THINKWARE. Do not press the Reset button with anything sharp.

It may result damage or failure of the product.

Product

Do not touch the cigar lighter power cable with wet hands.

This may result in electrical shock.

Insert the cigar lighter power cable until it is stable.

Unstable connection may result in fire.

Do not use any damaged cigar lighter power cable.

This may result in fire or electric shock.

Do not bend, pull, or press the cigar lighter power cable with an excessive power or anything heavy.

This may result in fire or electric shock.

Do not place the product or the cigar lighter power cable near to the heat apparatus.

This may result in fire or electric shock.

Do not remodel or cut the cigar lighter power cable.

This may result in damage to the product or vehicle. The user is liable for any damage caused to the product or vehicle by the failure to observe the above warning.

If the product is not be used for a long time, please detach cigar lighter power cable from the product.

Otherwise, the vehicle battery may be discharged or fire may occur.
The user is liable for any damage caused to the product or vehicle by the failure to observe the above warning.

Driving

Do not operate the product while you are driving.

You may be distracted, resulting in a car accident.

Do not install the product in a location that hinders your driving or road-visibility.

This may result in an accident.

Components

Basic Components

Vehicle Drive Recorder

Holder

Cigar lighter Power Cable

Three Cable Holders (three)

expendables

Micro SD Memory Card

Micro SD Adaptor

Quick Guide

Optional Accessories

AV-OUT Cable

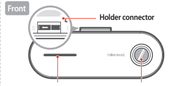
External GPS

Continuous power cable

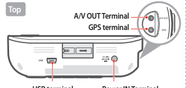
Part Names

The images presented here may be different from the product. (For the purpose of the improvement of the performance of quality of the product, the parts may be changed without any prior notice.)

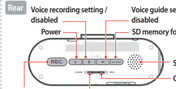
Front



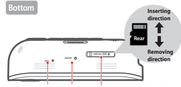
Top



Rear



Bottom



How to Install the Product

1. By adjusting the grooves on the holder-connector, connect it the device.

Slide the holder onto the wider groove of the device holder connector (A) and push it to (B) until it 'clicks' and firmly fits in.

2. Remove a film from the double-sided tape and attach one side to the holder. Attach the holder to a location that does not hinder your driving or outside visibility.

We recommend that you install the device behind the rearview mirror. Select a location that allows for easy button control. Wipe all foreign material and moisture from the surface to which the double-sided tape will be attached using a soft and dry cloth.

Checking camera recording direction
Checking the recorded video through the PC Viewer

3. Adjust the body to a proper angle and fix it by tightening the screw of the holder.

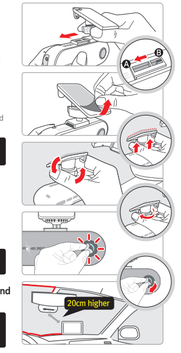
▶ If you do not tighten the screw of the holder, the video may not be recorded properly due to the rocking of the body or other causes

4. Remove the camera lens protection file.

If the film is not removed, the quality of recorded video will be degraded. Be careful not to stain the lens with fingerprints.

5. Connect the power cable (cigar lighter power cable) and organize the cable using the cable holders.

Please, install it apart from navigation more than 20cm.
(Receiving rate may be down in some of places where DMB and GPS sensitivity is low.)



▶ For the best video quality, keep the front window of your vehicle clean before starting recording.
▶ Foreign material (e.g., fingerprints) that stains the black box lens may result in a negative impact on the recorded video. Keep the lens clean.

Recording while Driving

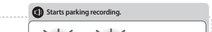
○ Continuous Recording

All videos are recorded in interval of one-minute and saved in the 'Continuous Recording Folder

○ Event Recording

When the impact of which strength exceeds the user-specified strength, the black box records scenes for 20 seconds; from 10 seconds before the event (impact) has occurred to 10 seconds after that and automatically saves the video in the Event Recording Folder.

Setting Parking Mode



○ Auto parking mode (default setting)

When the vehicle power is turned off, the mode is automatically changed to the Parking Mode with voice guidance.

○ Manual Parking Mode

Press the REC (REC) button (for more than 3 seconds) to change to the Parking Mode with voice guidance.

▶ You need the PC Viewer configuration. (The default setting is the Auto Parking Mode)
▶ To change to Auto Parking mode is available, you should use our retail continuous power cable.
(If the cable is not our retail continuous power cable, the product may malfunction.)
▶ It takes about 30 seconds to switch to the Auto Parking Mode, however, the mode may not be switched to the Auto Parking Mode to prevent battery discharge.

Recording while parking

When any motion or impact or motion is detected within the recording scope of the black box, the operation status LED (▬) lights on in red.

○ Event detection recording

Event detection recording: Records scenes for 20 seconds; from 10 seconds before the event has been detected to 10 seconds after and saves in the Event recording folder.

○ Motion detection recording

Records scenes for 20 seconds, from 10 seconds before the motion has been detected to 10 seconds after and saves in the Motion Recording Folder.

The warranty period of this THINKWARE product is limited to one year.

For the accessories and expendables except for the black box, separate warranty period shall be applied.

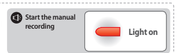
Product Name			
Purchased on	Day,	Month,	Year
Customer Information	Customer name:	Tel:	
	Address:		
Agency			

- The product quality assurance shall be in accordance with the product warranty.
- The purchaser shall keep the purchase date for future evidence of purchase and future reference, since the warranty period is calculated based on the purchase date.
- For details on the warranty, see "Consumer Damage Compensation Rule".
- All replaced products shall be new products or products having similar functions.
- THINKWARE is not liable for the repair, replacement, or refund of any product until the customer returns the defected product to THINKWARE.
- This warranty shall not be re-issued. Please keep this warranty. (The serial number is not re-issued.)
- The product that THINKWARE has not authorized cannot be supported with any kind of THINKWARE services (beware of imitations.)

THINKWARE

Manual Recording

o In Continuous recording mode, the pressing of the REC (REC) button shortly even when no accident has occurred will save scenes for 20 seconds from 10 seconds before the button has been pressed to 10 seconds after in the Manual Recording folder.



Recording file

The recording folder created in the Micro SD card is based on date/time in the order of time. In the created folder, files are created in the units of date/time.

- The recording file is created based on the recording start time.
- Up to 100 recording files can be created in one date/time-based folder.
- If the file size exceeds the micro SD card capacity, the oldest file or folder is deleted sequentially and creates new date/time folder and recording file.

▶ When the space for Continuous Recording is insufficient, the oldest video files are automatically deleted with new files then being saved. However, in this case, any video files saved in the Event Folder will not be deleted.

▶ While there are only the video files in Event Folder and the space is insufficient, the oldest Event video files will be automatically deleted. Therefore, please save important video files to the SD card of the Navigation device, the hard disk of a PC, or any other storage-devices for safe backup. (However, if overwrite by recording video is disabled, newly created event video will not be stored in the case of insufficient space in event folder)

Playing Mode

After power off, connect power while pressing the REC(REC) button and Playing Mode starts.

▶ Connect the external devices to the black box using AV-OUT cable.

▶ It is recommended to use the standard AV-OUT cable guaranteed by our company.

Button	Function	
	List of recording files and setting mode	Video Playback Mode
Power (⏻)	Select File/Menu	Play/Pause
Voice Recording (🎙)	Move to Upper File/Menu	Fast Play to Forward
Voice Guide (🔊)	Move to Lower File/Menu	Fast Play to Backward
SD memory format	Exit	Stop the video and go to the list of the recording file

▶ The product shall not be used for purposes other than its intended purpose, nor shall be arbitrarily changed. Under the Privacy Act and other relevant laws, the user shall hold the sole responsibility for recording other person's voice using this recording function.

Program Upgrade

o When an upgrade file exists in the micro SD card, an upgrade can be carried out.
- After completing the upgrade, the program automatically restarts.

Notes for installing the Products

❶ A vehicle cigar lighter power cable is provided along with our products as a default component. A constant power cable (optional) is up to the users.

❷ We recommend you to let a car mechanic install and mount the products.

❸ If you need to remove the products, you can get help from the store, you bought the product at.

Executing PC Viewer

The micro SD card reader is an optional accessory.

1 Insert the micro SD memory card into the micro SD card reader by placing it in with the top of the card upwards and connect to the PC.

▶ Please make sure that you insert the micro SD card reader to the reader in the correct direction.

2 Execute the BLACK VIEWER icon on the Desktop to execute the PC Viewer program. The PC Viewer program screen appears.

[Recommended Specifications for PC Viewer]

Operating System (OS) Windows XP (32-bit), Windows Vista (32-bit), Window 7 (32/64-bit) Pentium 4 / 2.8Ghz or higher / RAM 1G or higher Disk Space of HDD 4GB / Directx 9.0 or higher Microsoft Internet Explorer version 7.0 or higher

3 Open a Drive (⏏)
- Select the removable storage device of the micro SD card connected to the PC and select OK.

Drive
Please select your drive.
OK
Click Open (⏏)
When the model (number) appears on the screen after reading Setup file, select the setting (configuration) correspond to that model (number)

▶ If a micro SD card has been inserted in the product but never used, the drive cannot be opened. In this case, insert the micro SD card in the product and record at least one file.

4 The recording folders and files saved in the selected drive are listed up in the File List.
In the File List, select a desired file, and then double-click it on the list or click the Play icon to play the file.

Basic Operation

Button Operation

Button	Pressed for less than 3 seconds	Pressed for more than 3 seconds
Voice recording 🎙 button	Voice recording setting/disabled	
Voice guidance 🔊 button	Voice guidance setting/disabled	Security LED ON/OFF
SD Memory Format button	Photo Shooting	Formats the SD memory
REC button	Manual Recording	Sets/Ends Parking Mode

Operation Status LED and Voice (BEEP) Operation Mode

Operation Mode	LED	
	Voice Recording (ON)	Voice Recording (OFF)
Continuous Recording	Blinking in Blue	Blinking in Green
Voice Guidance	Starts the continuous recording.	
Even Recording	Blinking in Red	
Voice Guidance	(Ring) the buzzer sounds	
Parking Recording (Waiting)	Blinking in Blue + Blinking in Red	
Voice Guidance	Setting ▶ Start Parking recording. Releasing ▶ End Parking recording.	
	Event Recording	Motion Recording
Parking Recording (during recording)	Blinking in Red	
Manual Recording	Blinking in Red	
Voice Guidance	Setting ▶ Start Manual recording. Releasing ▶ End Manual recording.	

CLAIR 2
QuickGuide

This product is the vehicle drive recorder (VDR) that records the driving video of a car.

▶ According to the driving conditions, vehicle type, and navigation environments, some functions may not be supported. Functional support related to firmware updates for more reliable and advanced quality may vary by product. In addition, please use this apparatus as a reference to check the driving video since the video recording function may not work in some environments or conditions.

▶ This product does not guarantee that it records all videos at accident and an accident, that is caused by impact not big enough to trigger the impact sensor (G-SENSOR) may not be identified as event video and consequently, be not recorded.

This Quick Guide provides the most basic description to use our Black Clair2. For more detailed description, download and refer to the User Manual from Homepage (www.thinkwareglobal.com).

Check our website for more information! www.thinkwareglobal.com

ACMA-0283AM101